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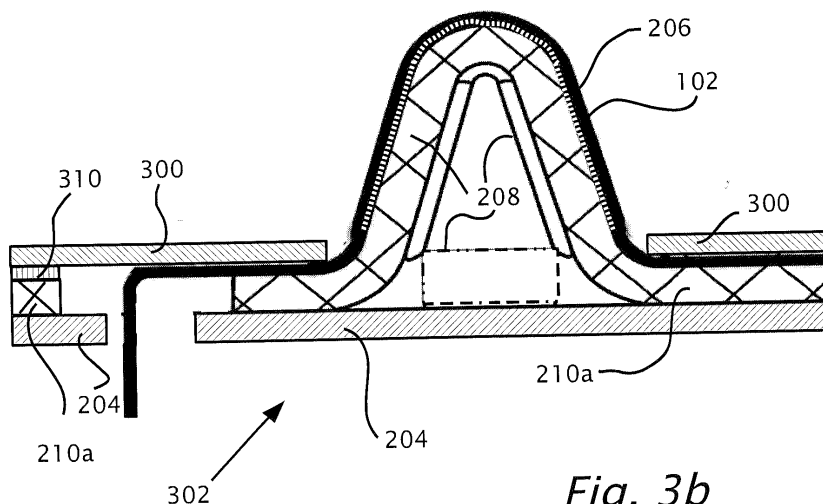
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(54) **Junction box for snap together electrical connections to photovoltaic panels**

(57) A junction box adapted to provide an electrical connection to an electrical wire attached to a photovoltaic panel. The junction box has a lower portion which has an entry slot to allow entry of the wire into the junction box and a raised protrusion over which the wire is bent and formed to be substantially in the same shape as the raised protrusion. The junction box also has a clamp adapted to be attachable to said lower portion, whereby the clamp holds the wire in place for providing the electrical connection. The wire is preferably bus ribbon. The

lower portion preferably has an elastic polymeric element disposed between the raised portion and the wire. The raised protrusion may have an elastic polymeric element. The junction box also has an upper portion including a terminal. The terminal connects to an electrical load. The terminal is adapted to be applied under pressure onto the wire, thereby conforming the terminal to be of substantially the same shape as the protrusion. The upper portion typically has a fastener which closes the upper portion to the lower portion under pressure.



*Fig. 3b*



## EUROPEAN SEARCH REPORT

Application Number  
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| Place of search<br>Berlin   |  | Date of completion of the search<br>20 August 2014 | Examiner<br>Schäfer, Arnold                     |
| <p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone<br/>Y : particularly relevant if combined with another document of the same category<br/>A : technological background<br/>O : non-written disclosure<br/>P : intermediate document</p> <p>T : theory or principle underlying the invention<br/>E : earlier patent document, but published on, or after the filing date<br/>D : document cited in the application<br/>L : document cited for other reasons<br/>&amp; : member of the same patent family, corresponding document</p> |  |  |   |

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